

ABSTRACT

Provided as a voice coil-type linear motor is a linear motor which achieves relatively high output power, small size and light weight, high thrust, and high efficiency, such as to be available as an industrial linear motor. Ends of inside yokes are coupled by means of auxiliary yokes, outside yokes are configured such that inner peripheral surfaces of magnets are of different magnetic poles, a closed magnetic path is formed by the inside yokes, auxiliary yokes, outside yokes, and magnets. By feeding current to coils, magnetic action is caused to occur between a magnetic field generated by the closed magnetic path and the coils, so that the outside yokes and the inside yokes may move relative to each other.